

INTERNATIONAL SEARCH REPORT

/GB2004/003474

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B65G1/133

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B65G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/065421 A1 (DIDRIKSEN JAN ET AL) 3 April 2003 (2003-04-03)	1-5, 10, 12-15, 17, 21-23
Y	paragraph '0105! - paragraph '0114!; figures 1-5	6-9, 18-20
Y	US 4 389 157 A (GOSWICK RICHARD L ET AL) 21 June 1983 (1983-06-21) column 1, line 52 - line 56 column 9, line 16 - line 64; figures 1,2	6-9, 18-20
X	DE 198 50 636 A (ZELLER GEORG) 4 May 2000 (2000-05-04) the whole document	1-3, 5, 10, 12-14, 17, 22, 23

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex:

° Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *G* document member of the same patent family

Date of the actual completion of the international search

29 September 2004

Date of mailing of the international search report

06/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Lawder, M

INTERNATIONAL SEARCH REPORT

'GB2004/003474

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 12 19 864 B (WALTHER ZARGES DIPL ING) 23 June 1966 (1966-06-23) column 5, line 37 - line 52; figure 1 -----	1-5, 10, 12-17, 22, 23
A	PATENT ABSTRACTS OF JAPAN vol. 0092, no. 26 (M-412), 12 September 1985 (1985-09-12) & JP 60 082509 A (NIHON FUAIRINGU SEIZOU KK), 10 May 1985 (1985-05-10) abstract -----	6-8, 18, 19
X	US 5 575 375 A (TAYLOR RONALD K ET AL) 19 November 1996 (1996-11-19) column 3, line 50 - column 5, line 62; figures 1, 2 -----	1-3, 5, 6, 12-18, 22, 23
X	EP 0 864 513 A (UNITED PARCEL SERVICE INC) 16 September 1998 (1998-09-16) figure 2 -----	1-3, 5, 10-17
A	US 5 894 918 A (BONNET HENRI) 20 April 1999 (1999-04-20) the whole document -----	1, 14, 17

INTERNATIONAL SEARCH REPORT

Information on patent family members

/GB2004/003474

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2003065421	A1	03-04-2003	EP 1273531 A1	08-01-2003
US 4389157	A	21-06-1983	FR 2509271 A1	14-01-1983
			GB 2101574 A	19-01-1983
DE 19850636	A	04-05-2000	DE 19850636 A1	04-05-2000
DE 1219864	B	23-06-1966	AT 247247 B	25-05-1966
			CH 439103 A	30-06-1967
			GB 1083116 A	13-09-1967
JP 60082509	A	10-05-1985	JP 1466113 C	10-11-1988
			JP 63013887 B	28-03-1988
US 5575375	A	19-11-1996	US 5413205 A	09-05-1995
			AU 696413 B2	10-09-1998
			AU 5082796 A	21-11-1996
			BR 9602183 A	30-06-1998
			CA 2174990 A1	10-11-1996
			CN 1398759 A	26-02-2003
			CN 1139638 A ,B	08-01-1997
			CZ 9601339 A3	13-11-1996
			DE 69607238 D1	27-04-2000
			DE 69607238 T2	26-10-2000
			EP 0742163 A1	13-11-1996
			ES 2144169 T3	01-06-2000
			FI 961948 A	10-11-1996
			HK 1013975 A1	01-09-2000
			HU 9601137 A2	28-03-1997
			JP 9226928 A	02-09-1997
			KR 266765 B1	02-10-2000
			NO 961868 A	11-11-1996
			NZ 286531 A	19-12-1997
			PL 314122 A1	12-11-1996
			RU 2161114 C2	27-12-2000
			SG 47132 A1	20-03-1998
			TW 432002 B	01-05-2001
			ZA 9603414 A	30-10-1997
			AU 675366 B2	30-01-1997
			AU 7971594 A	04-05-1995
			BR 9405634 A	08-09-1999
			CA 2151716 A1	20-04-1995
			CN 1115571 A ,B	24-01-1996
			CZ 9501484 A3	14-02-1996
			DE 4497811 T0	23-11-1995
			ES 2103658 A1	16-09-1997
			FI 952873 A	12-06-1995
			FR 2711121 A1	21-04-1995
			GB 2287683 A ,B	27-09-1995
			HK 1006564 A1	05-03-1999
			HU 71976 A2	28-02-1996
			IT RM940652 A1	13-04-1995
			JP 8504733 T	21-05-1996
			NO 952305 A	12-06-1995
			NZ 275658 A	26-11-1996
			PL 309342 A1	02-10-1995
			RU 2153454 C2	27-07-2000
			SE 510075 C2	19-04-1999

INTERNATIONAL SEARCH REPORT

Information on patent family members

/GB2004/003474

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5575375	A	SE 9502132 A	11-08-1995
		SG 50393 A1	20-07-1998
		WO 9510467 A1	20-04-1995
		ZA 9408007 A	31-05-1995
EP 0864513	A 16-09-1998	US 5433311 A	18-07-1995
		EP 0869087 A2	07-10-1998
		EP 0864513 A2	16-09-1998
		EP 0864514 A2	16-09-1998
		AT 177406 T	15-03-1999
		AT 267131 T	15-06-2004
		AT 235408 T	15-04-2003
		AT 241550 T	15-06-2003
		AU 1095395 A	06-06-1995
		CA 2166888 A1	26-05-1995
		CA 2345399 A1	26-05-1995
		CA 2345400 A1	26-05-1995
		CA 2345402 A1	26-05-1995
		DE 69417054 D1	15-04-1999
		DE 69417054 T2	01-07-1999
		DE 69432368 D1	30-04-2003
		DE 69432368 T2	12-02-2004
		DE 69432761 D1	03-07-2003
		DE 69432761 T2	08-04-2004
		DE 69433799 D1	24-06-2004
		DK 728114 T3	27-09-1999
		DK 869087 T3	20-09-2004
		DK 864513 T3	21-07-2003
		DK 864514 T3	29-09-2003
		EP 0728114 A1	28-08-1996
		ES 2195269 T3	01-12-2003
		ES 2203878 T3	16-04-2004
		JP 9505264 T	27-05-1997
		JP 3093272 B2	03-10-2000
		WO 9513977 A1	26-05-1995
		US 5489017 A	06-02-1996
		US 5509526 A	23-04-1996
		US 5501313 A	26-03-1996
		US 5570773 A	05-11-1996
US 5894918	A 20-04-1999	AT 217848 T	15-06-2002
		CA 2276482 A1	16-07-1998
		CA 2451972 A1	16-07-1998
		DE 69805498 D1	27-06-2002
		DE 69805498 T2	28-11-2002
		DK 950013 T3	16-09-2002
		EP 1215141 A1	19-06-2002
		EP 0950013 A2	20-10-1999
		ES 2176948 T3	01-12-2002
		JP 3515130 B2	05-04-2004
		JP 2000514026 T	24-10-2000
		WO 9830476 A2	16-07-1998